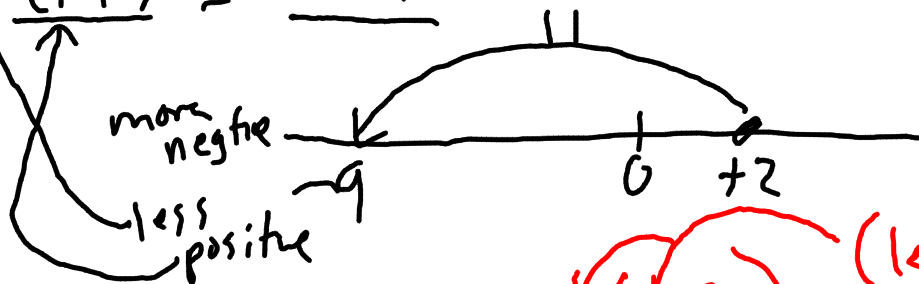


$$1. \quad 2 - (+11) = -9$$



$$2. \quad \boxed{4 + (-7)} - (-5) = \boxed{-3} - (-5) \quad (\text{less negative})$$

$$= (+2) \quad (\text{less negative})$$

$$3. \quad 169 - (96) + 52 - (85) = 40$$

$$4. \quad (-6) \times (+4) = -24$$

Different signs
make the sign
negative.

$$5. \quad (-8)(+5)(+7) = (-8) \times (+5) \times (+7)$$

$$= (-40) \times (+7)$$

$$= -280$$

$$(-2) \times (+6) = (-12)$$

$$(+16) + (-4) = \cancel{+16} - \cancel{4} = (+12)$$

not the same

$$- \times + = -$$

Different signs
make a negative.

$$(-2) \times (-6) = +12 \leftarrow \text{same signs} = \text{positive}$$

$$(+4) + (-16) = (-12)$$

not same signs

$$(+2) \times (-6) = -12$$

$$(+4) - (+16) = -12$$

different signs = -
same signs!

$$(+2) \times (+6) = +12$$

$$(+4) + (+16) = +20$$

same signs
not same signs

$$\begin{aligned} -5 \times (9-7) + (-5) &= -5 \times (2) + (-5) \\ &= -10 + (-5) \\ &= (-15) \checkmark \end{aligned}$$

$$\begin{aligned} -16 + 18 \div (-6) + 7 &= -16 + (-3) + 7 \\ &= -19 + 7 \\ &= -12 \end{aligned}$$

$$9. [9 \times (-6)^2 - 9 \times 2^2] \div (4+5)$$

$$= [9 \times (+36) - 9 \times 4] \div (4+5)$$

$$= [324 - 9 \times 4] \div (9)$$

$$= [324 - 36] \div 9$$

$$= 288 \div 9$$

$$= 32$$

$$(-1)$$

$$(-1) \times (-1) = (+1) \rightarrow \text{signs are same} \quad (-1)^2 = (+1)$$

$$(-1) \times (-1) \times (-1) = (-1) \quad (-1)^3 = (-1)$$

$$\underbrace{(-1) \times (-1)}_{+1} \times \underbrace{(-1) \times (-1)}_{+1} = 1 \quad (-1)^4 = (+1)$$

Even number of (-1) 's is positive product.

Odd # of negative ones is a negative product.

$$\begin{array}{l|l}
 +16 & (6n-8) \times 3 - 16 = -4 \\
 \div 3 & (6n-8) \times 3 = 12 \\
 +8 & (6n-8) = 4 \\
 \div 6 & 6n = 12 \\
 & n = 2
 \end{array}$$

$$3 + (-8) - (10 + 4) \times 2 =$$

I would do the brackets,
then multiply,
then add and subtract.

$$\begin{aligned} 3 + (-8) - (14) \times 2 &= 3 + (-8) - 28 \\ &= (-5) - 28 \\ &= -33 \end{aligned}$$